

Title (en)
SYSTEMS FOR THE TREATMENT OF EYE CONDITIONS

Title (de)
SYSTEME ZUR BEHANDLUNG VON AUGENLEIDEN

Title (fr)
SYSTÈMES DE TRAITEMENT DE MALADIES OCULAIRES

Publication
EP 3424558 A2 20190109 (EN)

Application
EP 18174794 A 20140429

Priority
• US 201361817757 P 20130430
• EP 14730263 A 20140429
• US 2014035949 W 20140429

Abstract (en)
Systems, methods, and devices used to treat eyelids, meibomian glands, ducts, and surrounding tissue are described herein. In some embodiments, an eye treatment device is disclosed, which includes a scleral shield positionable proximate an inner surface of an eyelid, the scleral shield being made of, or coated with, an energy-absorbing material activated by a light energy, and an energy transducer positionable outside of the eyelid, the energy transducer configured to provide light energy at one or more wavelengths, including a first wavelength selected to heat the energy-absorbing material. Wherein, when the eyelid is positioned between the energy transducer and the scleral shield, the light energy from the energy transducer and the heated energy-absorbing material of the scleral shield conductively heats a target tissue region sufficiently to melt meibum within meibomian glands located within or adjacent to the target tissue region.

IPC 8 full level
A61F 7/00 (2006.01); **A61F 9/007** (2006.01); **A61H 23/00** (2006.01); **A61N 1/40** (2006.01); **A61N 2/00** (2006.01); **A61N 5/06** (2006.01); **A61N 7/00** (2006.01); **A61N 7/02** (2006.01); **A61B 17/00** (2006.01); **A61F 9/008** (2006.01); **A61F 9/009** (2006.01); **A61H 5/00** (2006.01); **A61H 23/02** (2006.01)

CPC (source: EP US)
A61F 7/00 (2013.01 - EP US); **A61F 9/00718** (2013.01 - EP US); **A61F 9/0079** (2013.01 - US); **A61F 9/008** (2013.01 - EP US); **A61F 9/00802** (2013.01 - US); **A61F 9/009** (2013.01 - US); **A61N 5/0624** (2013.01 - EP US); **A61N 5/0625** (2013.01 - EP US); **A61N 7/00** (2013.01 - EP US); **A61N 7/02** (2013.01 - EP US); **A61B 2017/00084** (2013.01 - EP US); **A61F 2007/0002** (2013.01 - EP US); **A61F 2007/0088** (2013.01 - EP US); **A61F 2009/00861** (2013.01 - US); **A61H 5/00** (2013.01 - EP US); **A61H 23/02** (2013.01 - EP US); **A61H 23/0245** (2013.01 - EP US); **A61H 2201/0176** (2013.01 - EP US); **A61H 2201/0207** (2013.01 - EP US); **A61H 2201/0214** (2013.01 - EP US); **A61H 2201/0242** (2013.01 - EP US); **A61H 2201/025** (2013.01 - EP US); **A61H 2201/0257** (2013.01 - EP US); **A61H 2201/0285** (2013.01 - EP US); **A61H 2201/10** (2013.01 - EP US); **A61H 2201/501** (2013.01 - EP US); **A61H 2201/5028** (2013.01 - EP US); **A61H 2201/5043** (2013.01 - EP US); **A61H 2201/5061** (2013.01 - EP US); **A61H 2201/5082** (2013.01 - EP US); **A61H 2201/5092** (2013.01 - EP US); **A61H 2201/5097** (2013.01 - EP US); **A61H 2230/505** (2013.01 - EP US); **A61N 2005/0626** (2013.01 - EP US); **A61N 2005/0643** (2013.01 - EP US); **A61N 2005/0663** (2013.01 - EP US)

Cited by
RU194900U1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2014179356 A1 20141106; EP 2991729 A1 20160309; EP 2991729 B1 20180801; EP 2991729 B8 20180905; EP 3424558 A2 20190109; EP 3424558 A3 20190320; EP 3424558 B1 20200722; EP 3744391 A1 20201202; EP 3744391 B1 20230301; ES 2821002 T3 20210423; ES 2942724 T3 20230606; US 10092449 B2 20181009; US 10456298 B2 20191029; US 2015005750 A1 20150101; US 2019091065 A1 20190328

DOCDB simple family (application)
US 2014035949 W 20140429; EP 14730263 A 20140429; EP 18174794 A 20140429; EP 20186264 A 20140429; ES 18174794 T 20140429; ES 20186264 T 20140429; US 201414265228 A 20140429; US 201816152882 A 20181005